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Fig. 1

Schematic view of equipment; not to scale

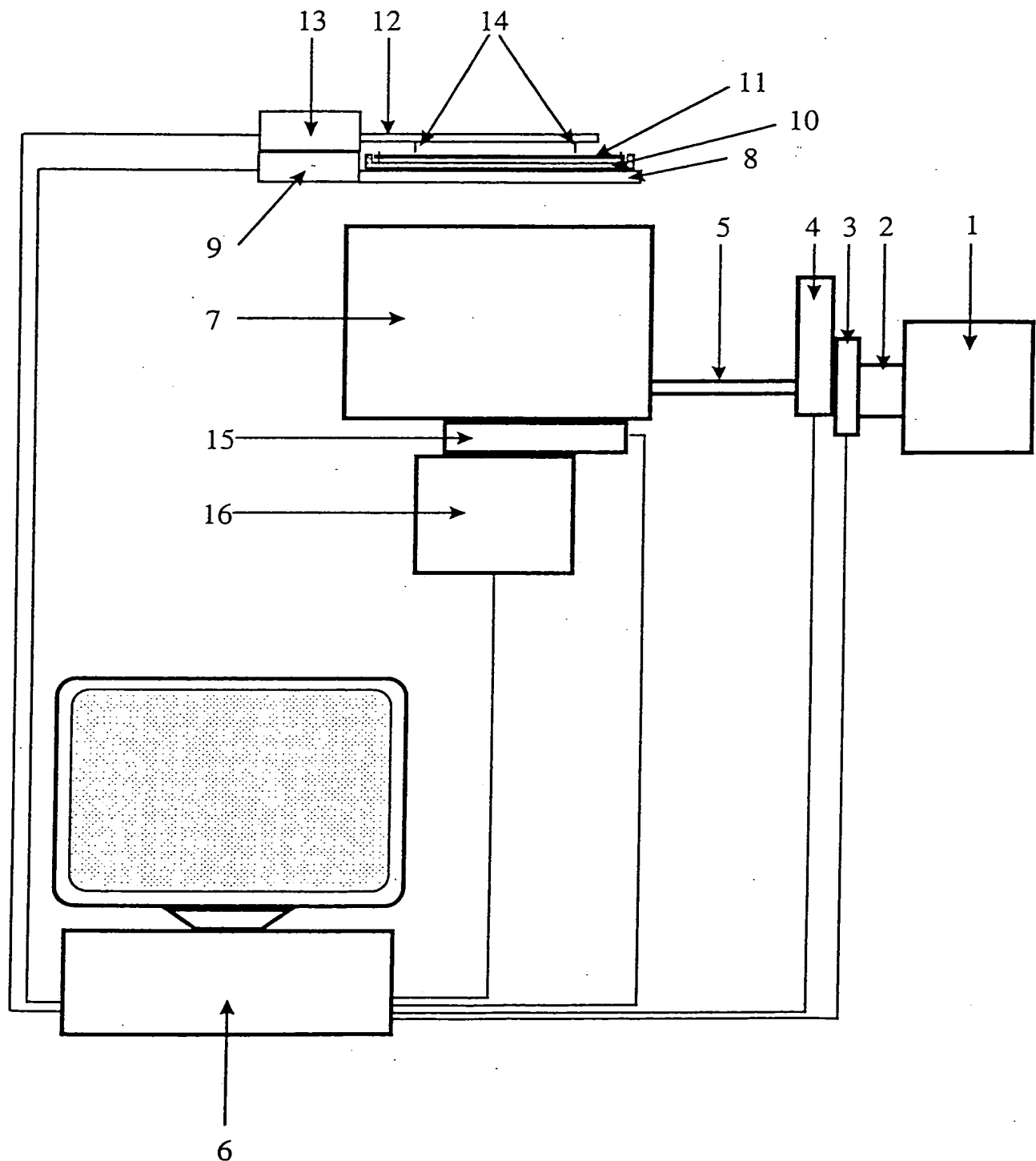
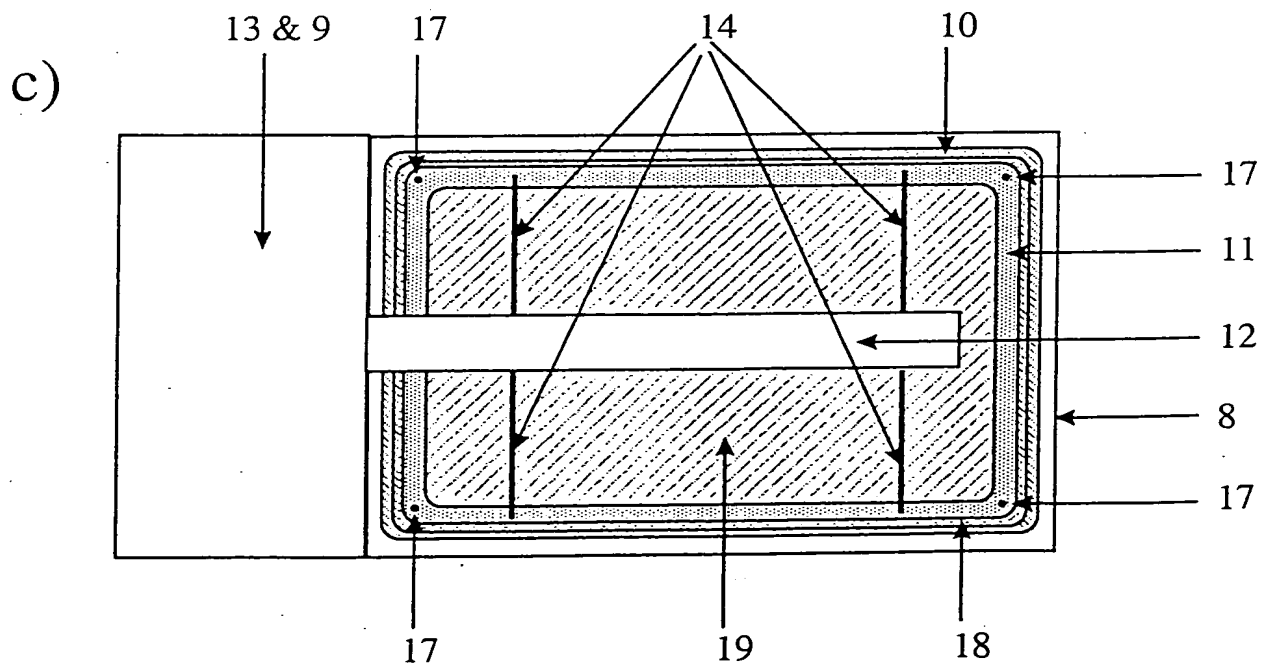
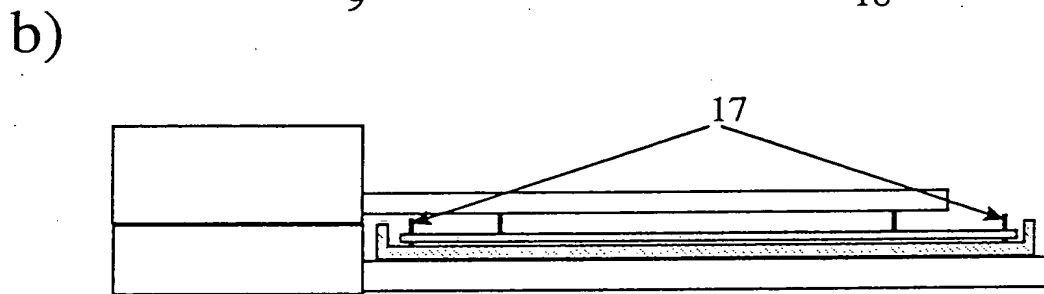
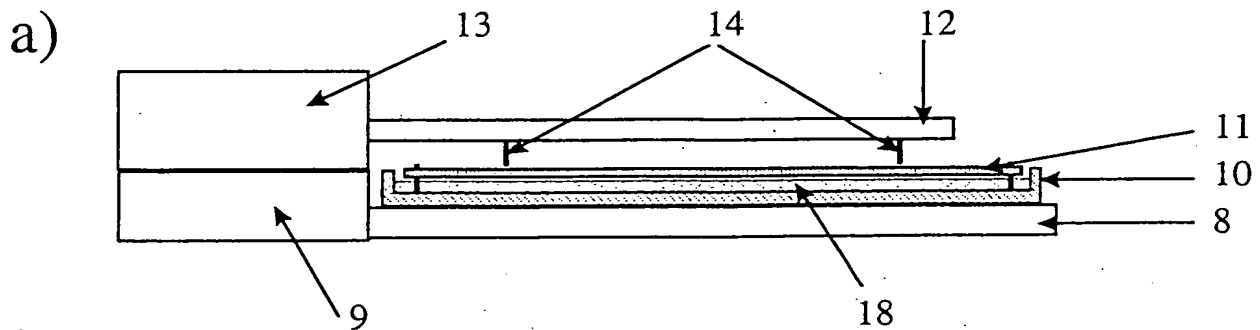


Fig. 2

Side views of test stage; not to scale



Top view of test stage; not to scale

**3-D sectional representations of portions of
the test-array/detector layers: not to scale**

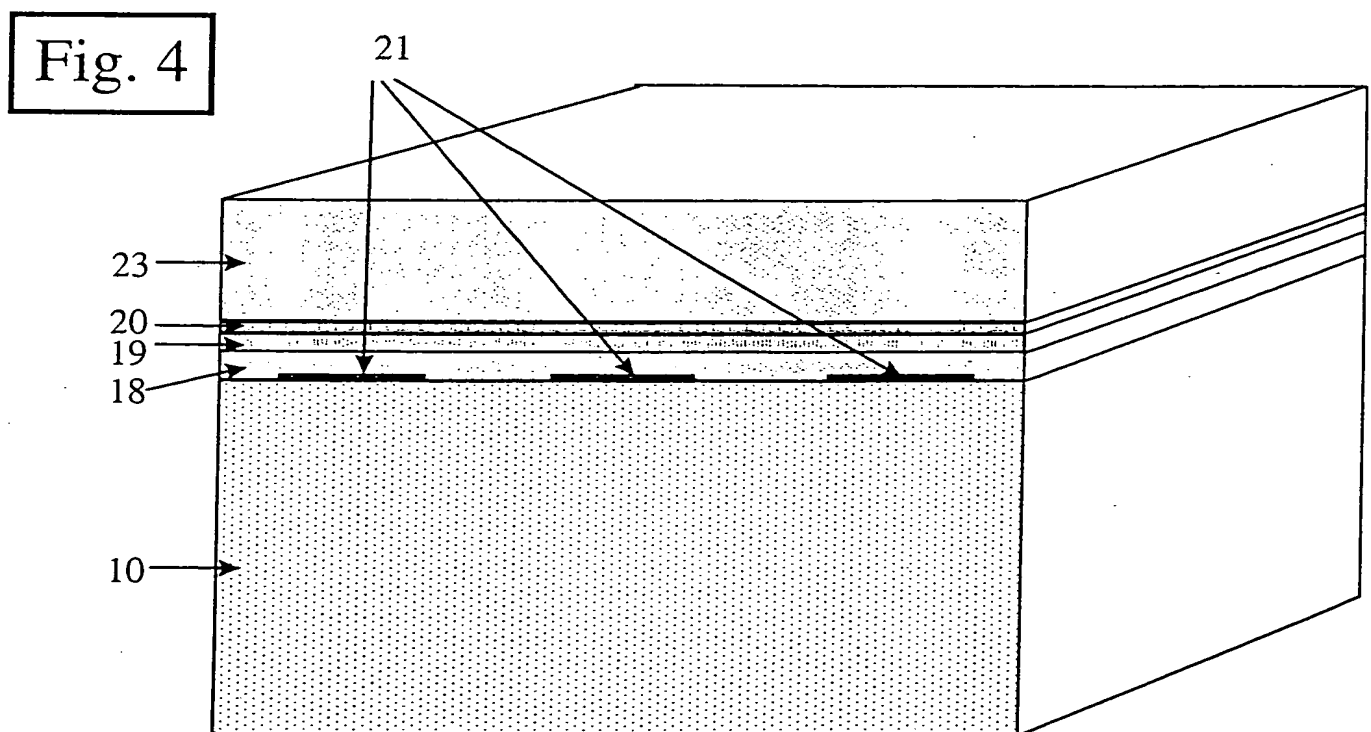
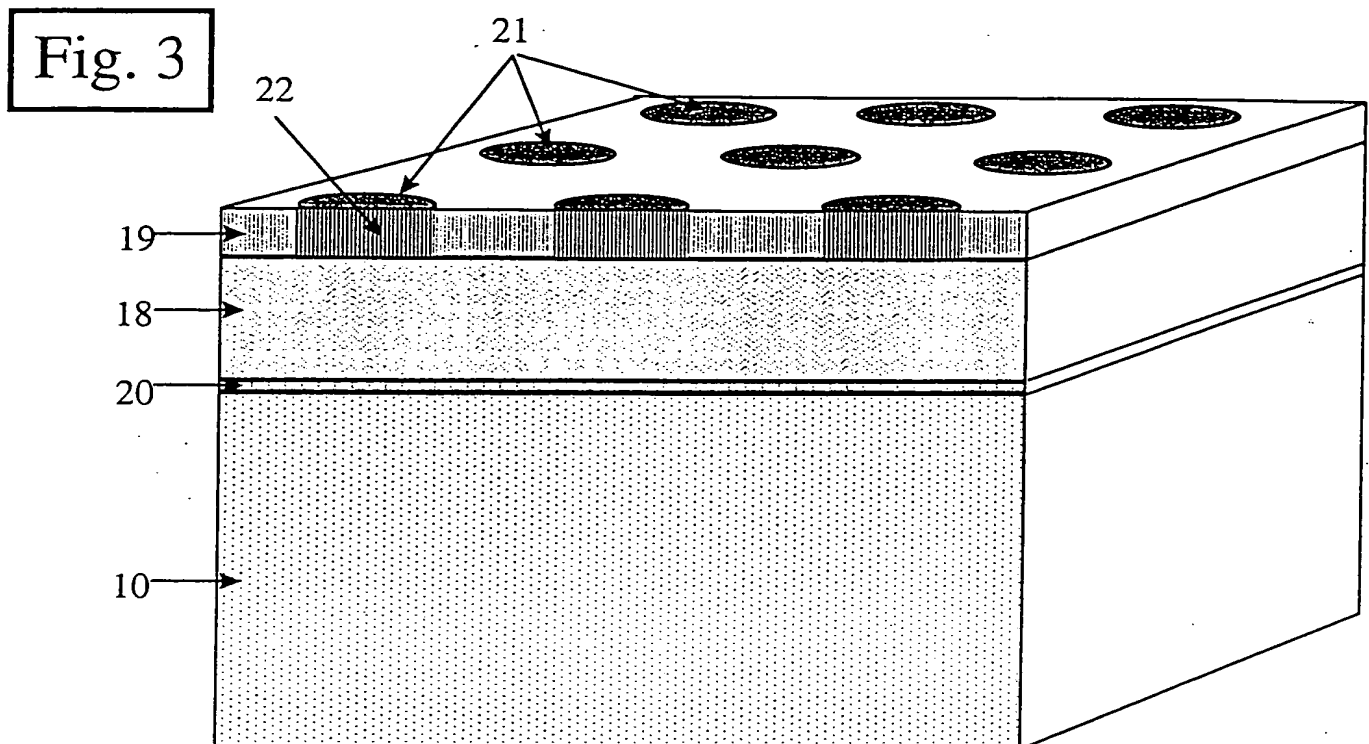
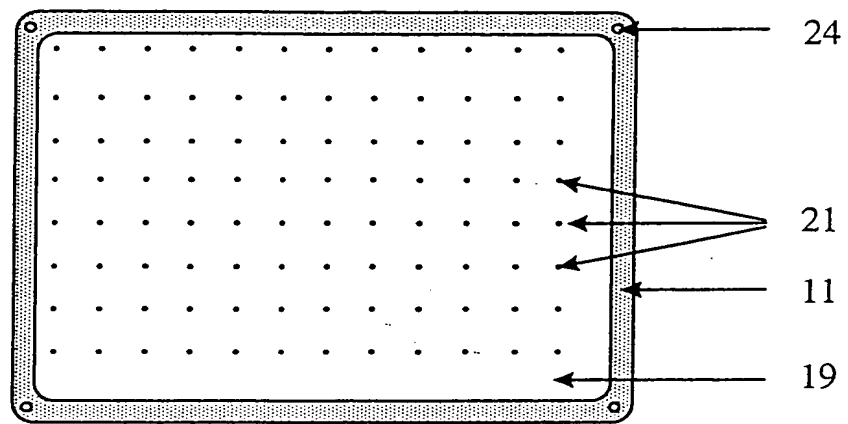
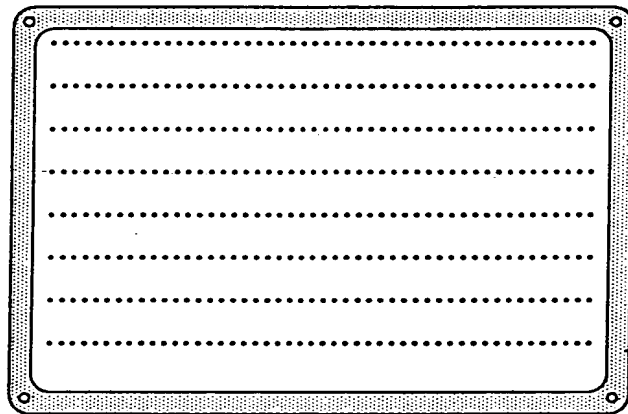


Fig. 5

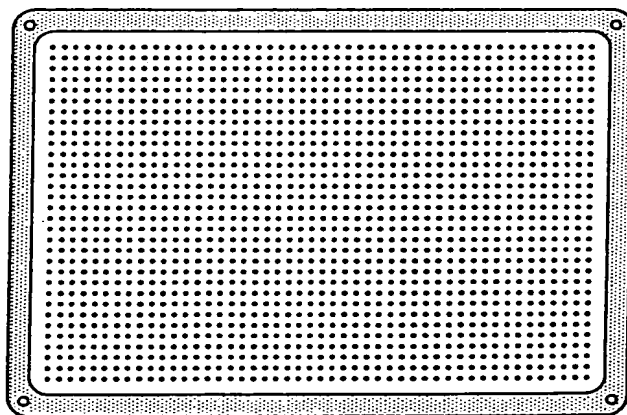
a)



b)



c)



Carbamylcholine Response (1 mM, five spots)

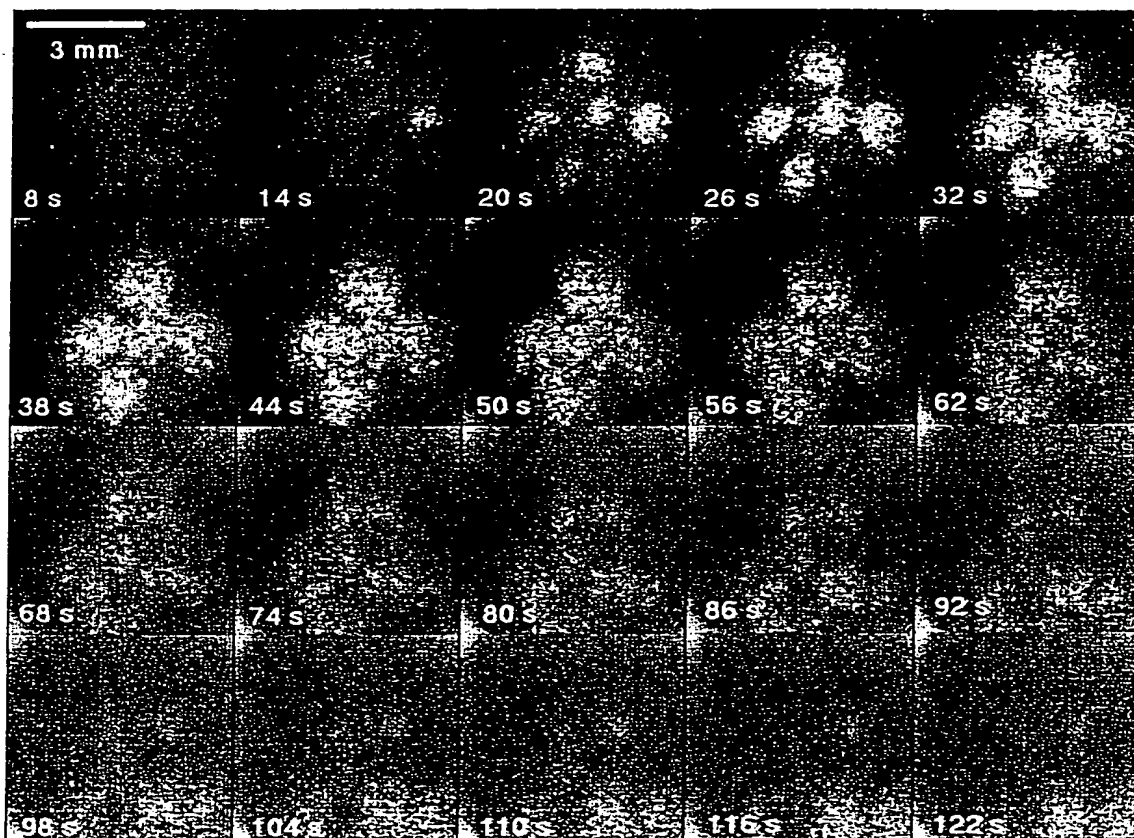


Figure 6

Carbamylcholine Response (1 mM, five spots)

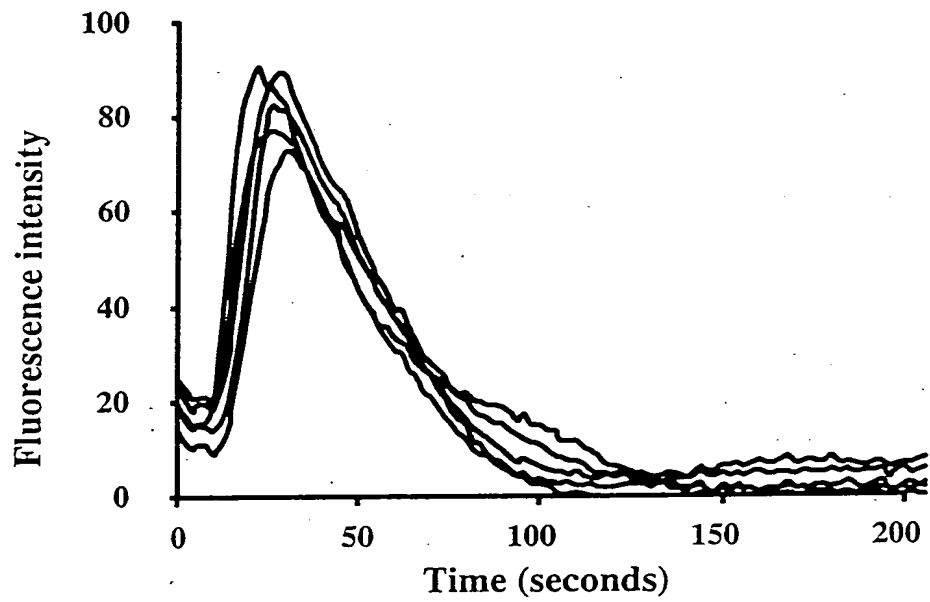


Figure 7

FCCP Response
(50 μ M, 5 x 5 grid of spots)

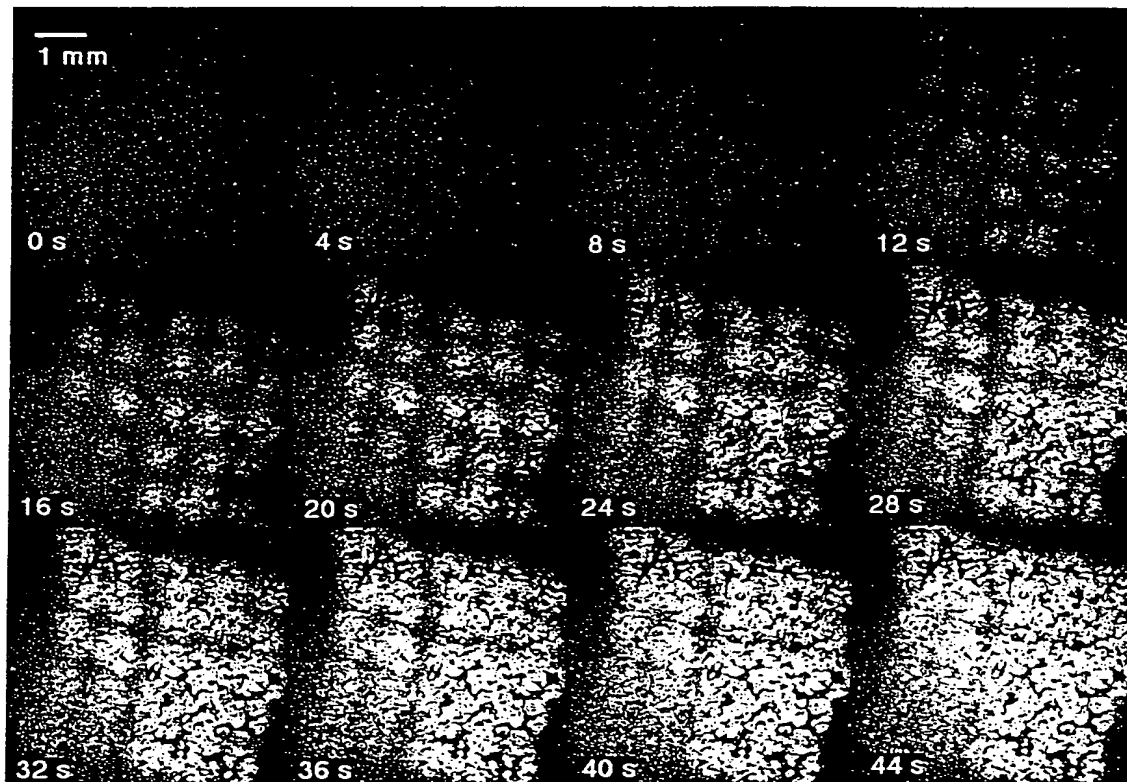


Figure 8

FCCP Response
(50 μ M, five central spots)

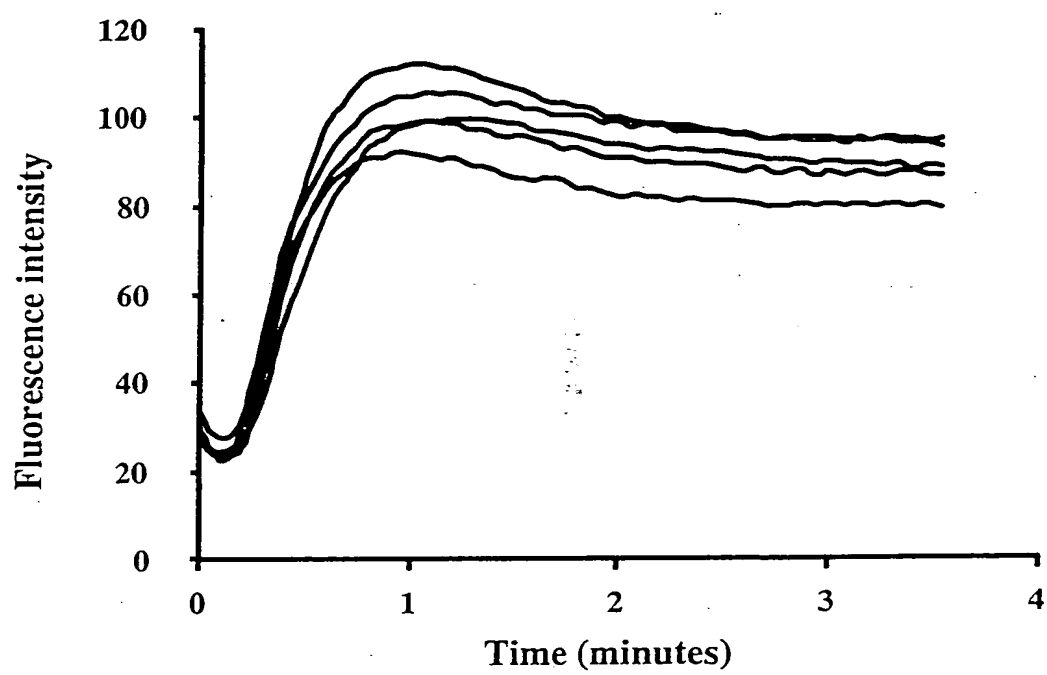


Figure 9

FCCP Dose-response
(50, 5, 0.5, 0.05 and 0.005 μ M, 5 x 5 grid)

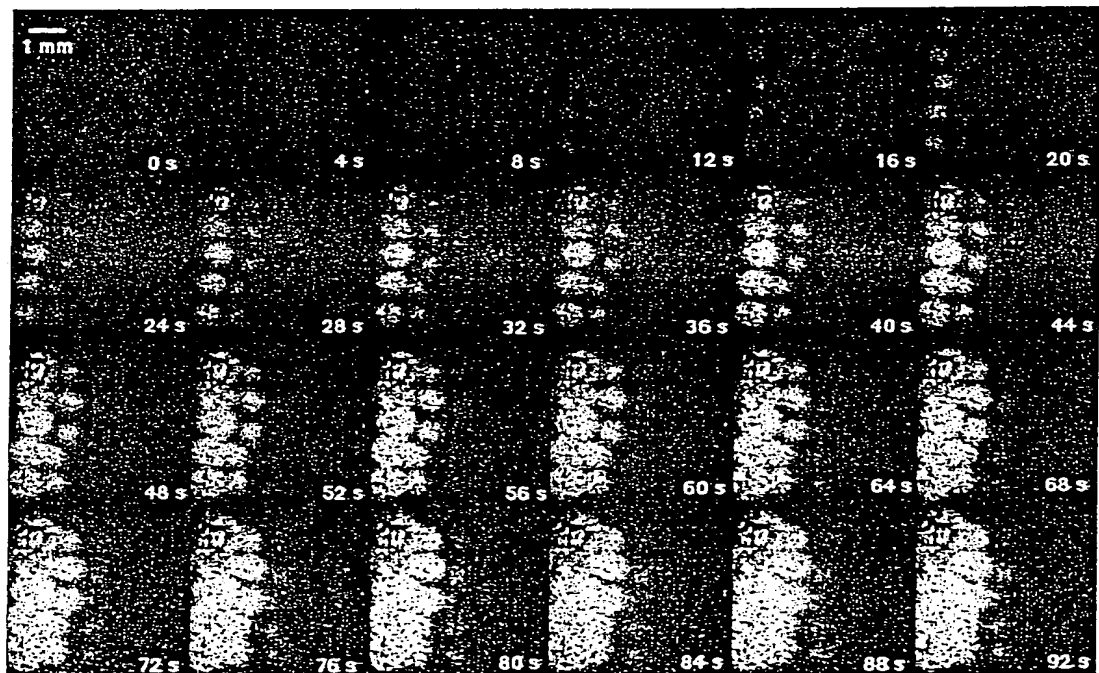


Figure 10

FCCP Dose-response
(50, 5, 0.5, 0.05 and 0.005 μM)

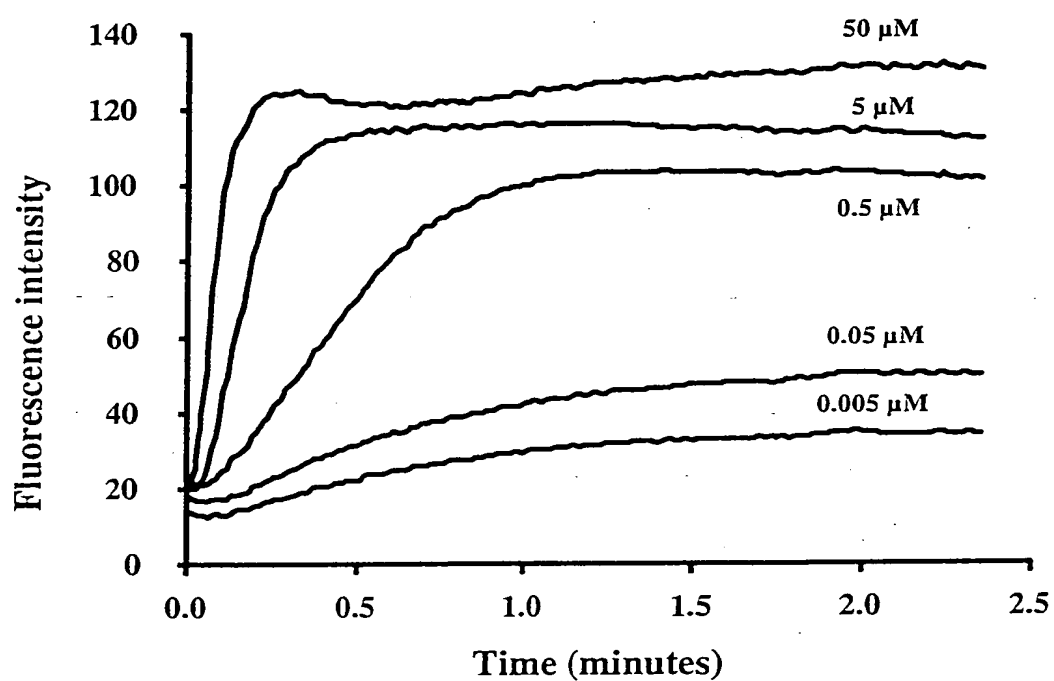


Figure 11

Ionomycin and Thapsigargin responses

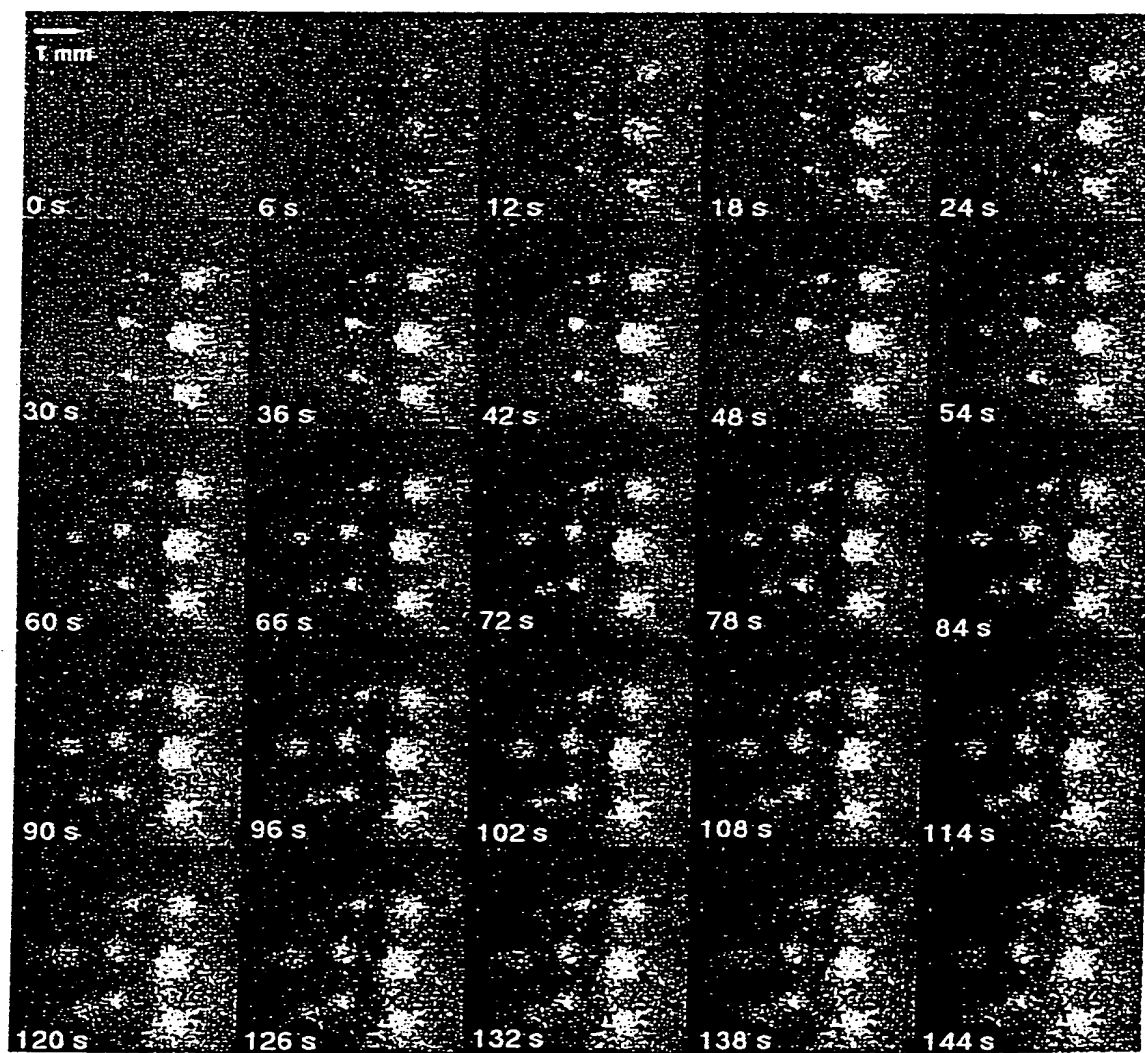


Figure 12

Ionomycin and Thapsigargin responses (mean of two to three responses)

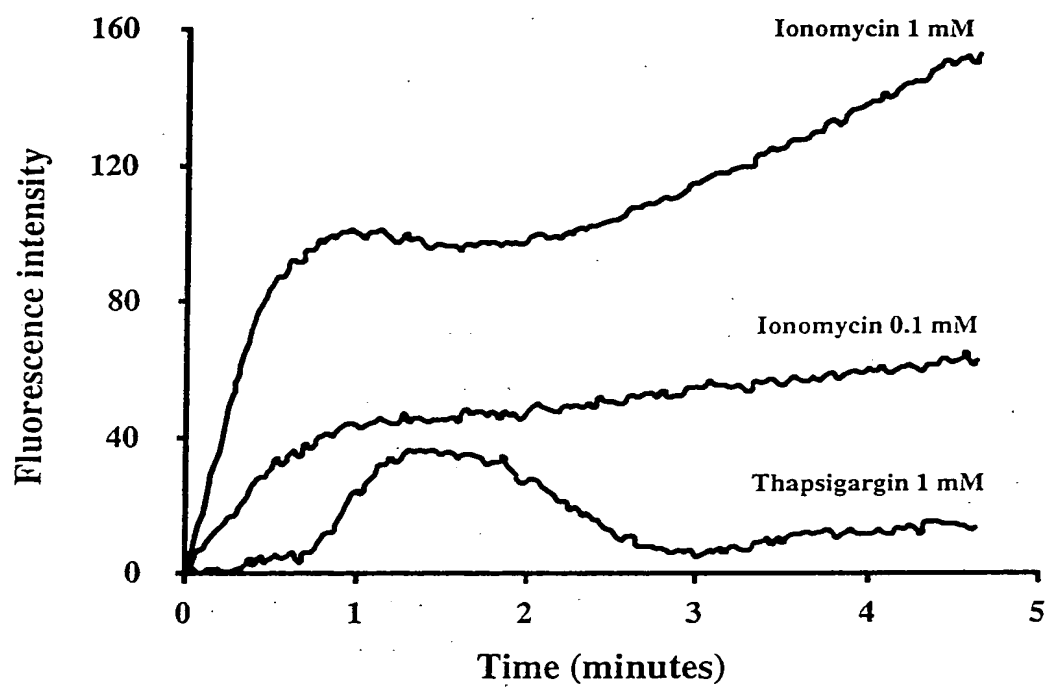


Figure 13